

SCORE Search Results Details for Application 10552515 and Search Result 20080624_135844_us-10-552-515-1_copy_157_933.rapbm.

Score Home	Retrieve Application	SCORE System	SCORE	Comments /
Page	List	Overview	FAQ	Suggestions

This page gives you Search Results detail for the Application 10552515 and Search Result 20080624_135844_us-10-552-515-1_copy_157_933.rapbm.

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OM protein - protein search, using sw model

Run on: June 24, 2008, 15:31:23 ; Search time 345 Seconds
(without alignments)
2090.033 Million cell updates/sec

Title: US-10-552-515-1_COPY_157_933
Perfect score: 4123
Sequence: 1 QQDVQDGNITTVHYALLSASW.....SELSSHWTFPTVPKASQLQQ 777

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 4051641 seqs, 928007118 residues

Total number of hits satisfying chosen parameters: 4051641

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published_Applications_AA_Main:*
1: /ABSS/Data/CRF/ptodata/1/pubpaa/US07_PUBCOMB.pep:*
2: /ABSS/Data/CRF/ptodata/1/pubpaa/US08_PUBCOMB.pep:*
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5: /ABSS/Data/CRF/ptodata/1/pubpaa/US10B_PUBCOMB.pep:*
6: /ABSS/Data/CRF/ptodata/1/pubpaa/US11A_PUBCOMB.pep:*
7: /ABSS/Data/CRF/ptodata/1/pubpaa/US11B_PUBCOMB.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Match	Query Length	DB	ID	Description
1	4123	100.0	933	5	US-10-552-515-1	Sequence 1, Appli
2	3739	90.7	885	7	US-11-599-845A-700	Sequence 700, App
3	3572	86.6	843	7	US-11-599-845A-698	Sequence 698, App
4	3031.5	73.5	898	5	US-10-450-763-45847	Sequence 45847, A
5	1502.5	36.4	920	4	US-10-104-047-2574	Sequence 2574, Ap
6	1502.5	36.4	920	6	US-11-072-512-2574	Sequence 2574, Ap
7	1498.5	36.3	981	6	US-11-582-861-10841	Sequence 10841, A
8	1471.5	35.7	981	6	US-11-443-428A-801153	Sequence 801153,
9	1471.5	35.7	1046	6	US-11-582-861-9875	Sequence 9875, Ap
10	1461.5	35.4	840	6	US-11-177-894-11	Sequence 11, Appl
11	1456.5	35.3	960	6	US-11-177-894-7	Sequence 7, Appli
12	1437	34.9	999	6	US-11-443-428A-774192	Sequence 774192,
13	1417	34.4	800	6	US-11-443-428A-739452	Sequence 739452,
14	1417	34.4	800	6	US-11-443-428A-739454	Sequence 739454,
15	1416	34.3	853	6	US-11-443-428A-739456	Sequence 739456,
16	1378.5	33.4	1219	6	US-11-097-143-15228	Sequence 15228, A
17	1369	33.2	910	5	US-10-484-148-14	Sequence 14, Appl
18	1367.5	33.2	712	6	US-11-177-894-10	Sequence 10, Appl
19	1352.5	32.8	891	6	US-11-582-861-10193	Sequence 10193, A
20	1344	32.6	1075	6	US-11-097-143-24771	Sequence 24771, A
21	1159.5	28.1	1058	6	US-11-097-143-21858	Sequence 21858, A
22	1154	28.0	596	4	US-10-104-047-2541	Sequence 2541, Ap
23	1154	28.0	596	6	US-11-072-512-2541	Sequence 2541, Ap
24	1061.5	25.7	594	5	US-10-631-467-681	Sequence 681, App
25	1061.5	25.7	594	5	US-10-529-348-1242	Sequence 1242, Ap
26	1061.5	25.7	594	5	US-10-917-503-10953	Sequence 10953, A
27	1061.5	25.7	594	6	US-11-177-894-8	Sequence 8, Appli
28	1043.5	25.3	825	6	US-11-443-428A-1026041	Sequence 1026041,
29	1024.5	24.8	782	4	US-10-066-543-1424	Sequence 1424, Ap
30	1024.5	24.8	793	6	US-11-443-428A-1026033	Sequence 1026033,
31	912.5	22.1	475	4	US-10-104-047-3116	Sequence 3116, Ap
32	912.5	22.1	475	6	US-11-072-512-3116	Sequence 3116, Ap
33	905	22.0	756	5	US-10-692-382-446	Sequence 446, App
34	886	21.5	573	6	US-11-443-428A-774194	Sequence 774194,
35	881.5	21.4	550	6	US-11-443-428A-774193	Sequence 774193,
36	873.5	21.2	642	4	US-10-108-260A-4483	Sequence 4483, Ap
37	873.5	21.2	642	6	US-11-177-894-9	Sequence 9, Appli
38	873.5	21.2	642	6	US-11-293-697-4483	Sequence 4483, Ap
39	829	20.1	631	6	US-11-443-428A-739453	Sequence 739453,
40	819.5	19.9	443	4	US-10-264-049-2917	Sequence 2917, Ap
41	801.5	19.4	853	6	US-11-443-428A-1026043	Sequence 1026043,
42	784.5	19.0	390	4	US-10-264-237-2758	Sequence 2758, Ap
43	735	17.8	139	3	US-09-957-708-31	Sequence 31, Appl
44	735	17.8	139	6	US-11-230-251-31	Sequence 31, Appl
45	691.5	16.8	306	6	US-11-443-428A-879642	Sequence 879642,

ALIGNMENTS

RESULT 1

US-10-552-515-1

; Sequence 1, Application US/10552515

; Publication No. US20060194204A1

; GENERAL INFORMATION:

; APPLICANT: The Government of the United States of America as

; APPLICANT: represented by the Secretary of the Department of Health and

; APPLICANT: Human Services

; APPLICANT: Bera, Tapan K.

; APPLICANT: Pastan, Ira H.

; APPLICANT: Lee, Byungkook

; TITLE OF INVENTION: GENE EXPRESSED IN PROSTATE CANCER AND METHODS OF USE

; FILE REFERENCE: 4239-68223-02

; CURRENT APPLICATION NUMBER: US/10/552,515

; CURRENT FILING DATE: 2005-10-06

; PRIOR APPLICATION NUMBER: PCT/US2004/10588

; PRIOR FILING DATE: 2004-04-05

; PRIOR APPLICATION NUMBER: 60/461,399

; PRIOR FILING DATE: 2003-04-08

; NUMBER OF SEQ ID NOS: 12

; SOFTWARE: PatentIn version 3.2

; SEQ ID NO 1

; LENGTH: 933

; TYPE: PRT

; ORGANISM: Artificial Sequence

; FEATURE:

; OTHER INFORMATION: Splice Variant-Novel Gene Expressed in Prostate

US-10-552-515-1

Query Match 100.0%; Score 4123; DB 5; Length 933;

Best Local Similarity 100.0%; Pred. No. 0;

Matches 777; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy      1 QQDVQDGNTTVHYALLSASWAVLCYYAEDLRCLKPLQELPNQASNWSAGLLAWLGIPNVL 60
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Db      157 QQDVQDGNTTVHYALLSASWAVLCYYAEDLRCLKPLQELPNQASNWSAGLLAWLGIPNVL 216

Qy      61 LEVVPDPPEYYSCRFRVKNLPRFLGSDNQDTFFTSTKRHQILFEILAKTPYGHEKKNLL 120
      |||
Db      217 LEVVPDPPEYYSCRFRVKNLPRFLGSDNQDTFFTSTKRHQILFEILAKTPYGHEKKNLL 276

Qy      121 GIHQLLAEGVLSAAFLPHDGPFFKTPPEGPQAPRLNQRVLFQHWARGWKWNKYQPLDHVR 180
      |||
Db      277 GIHQLLAEGVLSAAFLPHDGPFFKTPPEGPQAPRLNQRVLFQHWARGWKWNKYQPLDHVR 336

Qy      181 RYFGEKVALYFAWLGFYTGWLLPAAVVGTLVFLVGCFLVFSDIPTQELCGSKDSFEMCPL 240
      |||
Db      337 RYFGEKVALYFAWLGFYTGWLLPAAVVGTLVFLVGCFLVFSDIPTQELCGSKDSFEMCPL 396

Qy      241 CLDCPFWLLSSACALAQAGRLFDHGGTVFFSLFMALWAVLLLEYWKRKSATLAYRWDCSD 300
      |||
Db      397 CLDCPFWLLSSACALAQAGRLFDHGGTVFFSLFMALWAVLLLEYWKRKSATLAYRWDCSD 456

Qy      301 YEDTEERPRPQFAASAPMTAPNPITGEDEPYFPERSRARRMLAGSVVIVVMVAVVMCLV 360

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Db	457	YEDTEERPRPQFAASAPMTAPNPITGEDEPYFFPERSRARRMLAGSVVIVVMVAVVMCLV	516
Qy	361	SIILYRAIMAIVVSRSGNTLLAAWASRIASLTGSVVNLVLFILILSKIYVSLAHVLTWRM	420
Db	517	SIILYRAIMAIVVSRSGNTLLAAWASRIASLTGSVVNLVLFILILSKIYVSLAHVLTWRM	576
Qy	421	HRTQTKFEDAFTLKVFIFQFVNFIYSSPVYIAFFKGRFVGYPGNYHTLFGVRNEECAAGGC	480
Db	577	HRTQTKFEDAFTLKVFIFQFVNFIYSSPVYIAFFKGRFVGYPGNYHTLFGVRNEECAAGGC	636
Qy	481	LIELAQELLVIMVGKQVINNMQEVLIPLKLGWQKFLRLRSKKRKAGASAGSQGPWEDDY	540
Db	637	LIELAQELLVIMVGKQVINNMQEVLIPLKLGWQKFLRLRSKKRKAGASAGSQGPWEDDY	696
Qy	541	ELVPCEGFLDEYLEMVLQFGFVTIFVAACPLAPLFAALLNNWVEIRLDARKFVCEYRRPVA	600
Db	697	ELVPCEGFLDEYLEMVLQFGFVTIFVAACPLAPLFAALLNNWVEIRLDARKFVCEYRRPVA	756
Qy	601	ERAQDIGIWFHILAGLTHLAVISNAFLAFSSDFLPRAYYRWTRAHDLRGLNFTLARAP	660
Db	757	ERAQDIGIWFHILAGLTHLAVISNAFLAFSSDFLPRAYYRWTRAHDLRGLNFTLARAP	816
Qy	661	SSFAAAHNRTCryAFRDDDGHYSQTYWNLLAIRLAFVIVFEHVSVGRLLDLLVPDIP	720
Db	817	SSFAAAHNRTCryAFRDDDGHYSQTYWNLLAIRLAFVIVFEHVSVGRLLDLLVPDIP	876
Qy	721	ESVEIKVKREYYLAKQALAENEVLFGTNGTKDEQPKGSELSSHWTPFTVPKASQLQQ	777
Db	877	ESVEIKVKREYYLAKQALAENEVLFGTNGTKDEQPKGSELSSHWTPFTVPKASQLQQ	933

RESULT 2

US-11-599-845A-700

; Sequence 700, Application US/11599845A

; Publication No. US20080025981A1

; GENERAL INFORMATION:

; APPLICANT: Young, Paul E.

; APPLICANT: Ebner, Reinhard

; APPLICANT: Weaver, Zoe

; APPLICANT: Strovel, Jeffrey W.

; APPLICANT: Horrigan, Stephen K.

; APPLICANT: Shea, Martin

; APPLICANT: Weigle, Bernd

; APPLICANT: Rieger, Michael

; APPLICANT: Rick, Jennifer A.

; APPLICANT: Cain, Colyn B.

; TITLE OF INVENTION: Cancer-linked Genes as Target for Chemotherapy

; FILE REFERENCE: 689290-273

; CURRENT APPLICATION NUMBER: US/11/599,845A

; CURRENT FILING DATE: 2006-11-15

; PRIOR APPLICATION NUMBER: 10/585,466

; PRIOR FILING DATE: 2005-01-04

; PRIOR APPLICATION NUMBER: PCT/US2005/000040

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; PRIOR FILING DATE: 2005-01-04
; PRIOR APPLICATION NUMBER: 10/583,832
; PRIOR FILING DATE: 2004-12-16
; PRIOR APPLICATION NUMBER: PCT/US2004/42406
; PRIOR FILING DATE: 2004-12-16
; PRIOR APPLICATION NUMBER: 10/575,337
; PRIOR FILING DATE: 2004-10-07
; PRIOR APPLICATION NUMBER: PCT/US2004/33072
; PRIOR FILING DATE: 2004-10-07
; PRIOR APPLICATION NUMBER: 10/540,310
; PRIOR FILING DATE: 2003-12-19
; PRIOR APPLICATION NUMBER: PCT/US2003/40710
; PRIOR FILING DATE: 2003-12-19
; PRIOR APPLICATION NUMBER: 10/518,039
; PRIOR FILING DATE: 2003-06-10
; PRIOR APPLICATION NUMBER: PCT/US2003/19741
; PRIOR FILING DATE: 2003-06-10
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 769
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 700
; LENGTH: 885
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-599-845A-700

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Query Match 90.7%; Score 3739; DB 7; Length 885;
 Best Local Similarity 100.0%; Pred. No. 0;
 Matches 702; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy      1 QQDVQDGNNTTVHYALLSASWAVLCYYAEDLRLLKPLQELPNQASNWSAGLLAWLGIPNVL 60
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Qy      61 LEVVPDPPEYYSCRFVNKLPRFLGSDNQDTFFTSTKRHQILFEILAKTPYGHEKKNL 120
      |||
Db      218 LEVVPDPPEYYSCRFVNKLPRFLGSDNQDTFFTSTKRHQILFEILAKTPYGHEKKNL 277

Qy      121 GIHQLLAEGVLSAAFLHDGPFKTPPEGPQAPRLNQRQVLQHWARWGWNKYQPLDHVR 180
      |||
Db      278 GIHQLLAEGVLSAAFLHDGPFKTPPEGPQAPRLNQRQVLQHWARWGWNKYQPLDHVR 337

Qy      181 RYFGEKVALYFAWLGFTYTWLLPAAVVGTLVFLVGCFLVFSDIPTQELCGSKDSFEMCPL 240
      |||
Db      338 RYFGEKVALYFAWLGFTYTWLLPAAVVGTLVFLVGCFLVFSDIPTQELCGSKDSFEMCPL 397

Qy      241 CLDCPFWLLSSACALAQAGRLFDHGGTVFFSLFMALWAVLLLEYWKRKSATLAYRWDCSD 300
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Db      398 CLDCPFWLLSSACALAQAGRLFDHGGTVFFSLFMALWAVLLLEYWKRKSATLAYRWDCSD 457

Qy      301 YEDTEERPRPQFAASAPMTAPNPITGEDEPYFPERSRARRMLAGSVVIVVMVAVVVMCLV 360
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Db      458 YEDTEERPRPQFAASAPMTAPNPITGEDEPYFPERSRARRMLAGSVVIVVMVAVVVMCLV 517

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Qy 361 SIILYRAIMAIIVVSRSGNTLLAAWASRIASLTGSVVNLVFIILISKIYVSLAHVLTRWEM 420
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 Db 518 SIILYRAIMAIIVVSRSGNTLLAAWASRIASLTGSVVNLVFIILISKIYVSLAHVLTRWEM 577

Qy 421 HRTQTKFEDAFILKVFIFQFVNFSYSSPVYIAFFKGRFVGYPGNYHTLFGVRNEECAAGGC 480
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Db 578 HRTQTKFEDAFILKVFIFQFVNFSYSSPVYIAFFKGRFVGYPGNYHTLFGVRNEECAAGGC 637

Qy 481 LIELAQELLVIMVGKQVINNMQEVLIPLKLGWQKFLRLSKKRKAGASAGASQGPWEDDY 540
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Db 638 LIELAQELLVIMVGKQVINNMQEVLIPLKLGWQKFLRLSKKRKAGASAGASQGPWEDDY 697

Qy 541 ELVPCEGLFDEYLEMVLQFGFVTIFVAACPLAPLFAALLNNWVEIRLDARFVCEYRRPVA 600
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Db 698 ELVPCEGLFDEYLEMVLQFGFVTIFVAACPLAPLFAALLNNWVEIRLDARFVCEYRRPVA 757

Qy 601 ERAQDIGIWFHILAGLTHLAVISNAFLAFSSDFLPRAYYRWTRAHDLRGLNFTLARAP 660
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Db 758 ERAQDIGIWFHILAGLTHLAVISNAFLAFSSDFLPRAYYRWTRAHDLRGLNFTLARAP 817

Qy 661 SSFAAAHNRTCryRAFRDDDGHSYQTYWNLALIRLAFVIVFE 702
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Db 818 SSFAAAHNRTCryRAFRDDDGHSYQTYWNLALIRLAFVIVFE 859

RESULT 3

US-11-599-845A-698

; Sequence 698, Application US/11599845A

; Publication No. US20080025981A1

; GENERAL INFORMATION:

; APPLICANT: Young, Paul E.

; APPLICANT: Ebner, Reinhard

; APPLICANT: Weaver, Zoe

; APPLICANT: Strovel, Jeffrey W.

; APPLICANT: Horrigan, Stephen K.

; APPLICANT: Shea, Martin

; APPLICANT: Weigle, Bernd

; APPLICANT: Rieger, Michael

; APPLICANT: Rick, Jennifer A.

; APPLICANT: Cain, Colyn B.

; TITLE OF INVENTION: Cancer-linked Genes as Target for Chemotherapy

; FILE REFERENCE: 689290-273

; CURRENT APPLICATION NUMBER: US/11/599,845A

; CURRENT FILING DATE: 2006-11-15

; PRIOR APPLICATION NUMBER: 10/585,466

; PRIOR FILING DATE: 2005-01-04

; PRIOR APPLICATION NUMBER: PCT/US2005/000040

; PRIOR FILING DATE: 2005-01-04

; PRIOR APPLICATION NUMBER: 10/583,832

; PRIOR FILING DATE: 2004-12-16

; PRIOR APPLICATION NUMBER: PCT/US2004/42406

; PRIOR FILING DATE: 2004-12-16

; PRIOR APPLICATION NUMBER: 10/575,337

; PRIOR FILING DATE: 2004-10-07

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; PRIOR APPLICATION NUMBER: PCT/US2004/33072
; PRIOR FILING DATE: 2004-10-07
; PRIOR APPLICATION NUMBER: 10/540,310
; PRIOR FILING DATE: 2003-12-19
; PRIOR APPLICATION NUMBER: PCT/US2003/40710
; PRIOR FILING DATE: 2003-12-19
; PRIOR APPLICATION NUMBER: 10/518,039
; PRIOR FILING DATE: 2003-06-10
; PRIOR APPLICATION NUMBER: PCT/US2003/19741
; PRIOR FILING DATE: 2003-06-10
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 769
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 698
; LENGTH: 843
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-599-845A-698

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Query Match 86.6%; Score 3572; DB 7; Length 843;
 Best Local Similarity 100.0%; Pred. No. 0;
 Matches 671; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy      1 QQDVQDGNNTTVHYALLSASWAVLCYYAEDRLRLKLPQLQELPNQASNWSAGLLAWLGIPNVL 60
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Db      158 QQDVQDGNNTTVHYALLSASWAVLCYYAEDRLRLKLPQLQELPNQASNWSAGLLAWLGIPNVL 217

Qy      61 LEVVPDPPEYYSCRFRVNKLPRFLGSDNQDTFFTSTKRHQILFEILAKTPYGHEKKNLL 120
      |||
Db      218 LEVVPDPPEYYSCRFRVNKLPRFLGSDNQDTFFTSTKRHQILFEILAKTPYGHEKKNLL 277

Qy      121 GIHQLLAEGVLSAAFLPHDGPFKTPPEGPQAPRLNQRVLFQHWARWGKWNKYQPLDHVR 180
      |||
Db      278 GIHQLLAEGVLSAAFLPHDGPFKTPPEGPQAPRLNQRVLFQHWARWGKWNKYQPLDHVR 337

Qy      181 RYFGEKVALYFAWLGFTYTGWLLPAAVVGTLVFLVGCFLVFSDIPTQELCGSKDSFEMCPL 240
      |||
Db      338 RYFGEKVALYFAWLGFTYTGWLLPAAVVGTLVFLVGCFLVFSDIPTQELCGSKDSFEMCPL 397

Qy      241 CLDCPFWLLSSACALAQAGRLFDHGGTVFFSLFMALWAVLLLEYWKRKSATLAYRWDCSD 300
      |||
Db      398 CLDCPFWLLSSACALAQAGRLFDHGGTVFFSLFMALWAVLLLEYWKRKSATLAYRWDCSD 457

Qy      301 YEDTEERPRPQFAASAPMTAPNPITGEDEPYFPERSRARRMLAGSVVIVVMVAVVVMCLV 360
      |||
Db      458 YEDTEERPRPQFAASAPMTAPNPITGEDEPYFPERSRARRMLAGSVVIVVMVAVVVMCLV 517

Qy      361 SIILYRAIMAIVVSRSGNTLLAAWASRIASLTGSVNVLVFILILSKIYVSLAHVLTREWM 420
      |||
Db      518 SIILYRAIMAIVVSRSGNTLLAAWASRIASLTGSVNVLVFILILSKIYVSLAHVLTREWM 577

Qy      421 HRTQTKFEDAFTLKVFIFQVNFYSSPVYIAFFKGRFVGYPGNYHTLFGVRNEECAAGGC 480
      |||
Db      578 HRTQTKFEDAFTLKVFIFQVNFYSSPVYIAFFKGRFVGYPGNYHTLFGVRNEECAAGGC 637

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Qy 481 LIELAQELLVIMVGKQVINNMQEVLPKLGWWQKFLRLRSKKRKAGASAGASQGPWEDDY 540
 Db 638 LIELAQELLVIMVGKQVINNMQEVLPKLGWWQKFLRLRSKKRKAGASAGASQGPWEDDY 697

Qy 541 ELVPCGLFDEYLEMVLQFGFVTIFVAACPLAPLALLNNWVEIRLDARKEFVCEYRRPVA 600
 Db 698 ELVPCGLFDEYLEMVLQFGFVTIFVAACPLAPLALLNNWVEIRLDARKEFVCEYRRPVA 757

Qy 601 ERAQDIGIWFHILAGLTHLAVISNAFLAFSSDFLPRAYYRWTRAHDLRGFLNFTLARAP 660
 Db 758 ERAQDIGIWFHILAGLTHLAVISNAFLAFSSDFLPRAYYRWTRAHDLRGFLNFTLARAP 817

Qy 661 SSFAAAHNRTC 671
 Db 818 SSFAAAHNRTC 828

RESULT 4

US-10-450-763-45847

; Sequence 45847, Application US/10450763
 ; Publication No. US20050196754A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Hyseq, Inc
 ; TITLE OF INVENTION: NOVEL NUCLEIC ACIDS AND POLYPEPTIDES
 ; FILE REFERENCE: 790CIP3/US
 ; CURRENT APPLICATION NUMBER: US/10/450,763
 ; CURRENT FILING DATE: 2003-06-11
 ; PRIOR APPLICATION NUMBER: PCT/US01/08631
 ; PRIOR FILING DATE: 2001-03-30
 ; PRIOR APPLICATION NUMBER: 09/540,217
 ; PRIOR FILING DATE: 2000-03-31
 ; PRIOR APPLICATION NUMBER: 09/649,167
 ; PRIOR FILING DATE: 2000-08-23
 ; NUMBER OF SEQ ID NOS: 60736
 ; SOFTWARE: Custom
 ; SEQ ID NO 45847
 ; LENGTH: 898
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 US-10-450-763-45847

Query Match 73.5%; Score 3031.5; DB 5; Length 898;
 Best Local Similarity 91.2%; Pred. No. 4.6e-291;
 Matches 578; Conservative 2; Mismatches 11; Indels 43; Gaps 2;

Qy 1 QQDVQDGNNTTVHYALLSASWAVLCYYAEDLRLKLPLQELPNQASNWSAGLLAWLGIPNVL 60
 Db 250 QQDVQDGNNTTVHYALLSASWAVLCYYAEDLRLKLPLQDYPTRPTGRPACCAWLGIPNVL 309

Qy 61 LEVVPDPPEYYSCRFRVKNLPRFLGSDNQDTFFTSTKRHQILFEILAKTPYGHEKKNLL 120
 Db 310 LEVVPDPPEYYSCRFRVKNLPRFLGSDNQDTFFTSTKRHQILFEILAKTPYGHEKKNLL 369

Qy 121 GIHQLLAEGVLSAAFLPHDGPFFKTPPEGPQAPRLNQRQVLFQHWARWGKWNKYQPLDHVR 180
 |||
 Db 370 GIHQLLAEGVLSAAFLPHDGPFFKTPPEGPQAPRLNQRQVLFQHWARWGKWNKYQPLDHVR 429

Qy 181 RYFGEKVALYFAWLGFYTGWLLPAAVVGTLVFLVGCFLVFSDIPTQELCGSKDSFEMCPL 240
 |||
 Db 430 RYFGEKVALYFAWLGFYTGWLLPAAVVGTLVFLVGCFLVFSDIPTQELCGSKDSFEMCPL 489

Qy 241 CLDCPFWLLSSACALAQ---AGRLFDHGGTVFFSLFMALWAVLLEWYWKRSATLAYRW 296
 |||
 Db 490 CLDCPFWLLSSACALAQVREEAGRLFDHGGTVFFSLFMALWAVLLEWYWKRSATLAYRW 549

Qy 297 DCSDEYEDTEERPRPQFAASAPMTAPNPITGEDEPYFPERSRARRMLAGSVVIVVMVAVVV 356
 |||
 Db 550 DCSDEYEDTEERPRPQFAASAPMTAPNPITGEDEPYFPERSRARRMLAGSVVIVVMVAVVV 609

Qy 357 MCLVSIILYRAIMAIIVSRSGNTLLAAWASRIASLTGSVNVNLVFLILLSKIYVSLAHVLT 416
 |||
 Db 610 MCLVSIILYRAIMAIIVSRSGNTLLAAWASRIASLTGSVNVNLVFLILLSKIYVSLAHVLT 669

Qy 417 RWEHRTQTQKFEDAFTLKVFIQFVNFIYSSPVYIAFFKGRFVGYPGNYHTLFGVRNEECA 476
 |||
 Db 670 RWEHRTQTQKFEDAFTLKVFIQFVNFIYSSPVYIAFFKGRFVGYPGNYHTLFGVRNEECA 729

Qy 477 AGGCLIELAQELLVIMVGKQVINNMQEVLPKLGWWQKFRRLRSKKRKAGASAGASQGPW 536
 |||
 Db 730 AGGCLIELAQELLVIMVGKQVINNMQEVLPKLGWWQKFRRLRSKKRKAGASAGASQGPW 789

Qy 537 EDDYELVPCEGLFDEYLEM-----VL 557
 |||
 Db 790 EDDYELVPCEGLFDEYLEMAGAGFCPNACPELVPPELPEKARDQPEARSAGQDSRPEAVL 849

Qy 558 QFGFVTIFVAACPLAPLALLNNWVEIRLDARKE 591
 |||
 Db 850 QFGFVTIFVAACPLAPLALLNNWVEIRLDARKE 883

RESULT 5

US-10-104-047-2574

; Sequence 2574, Application US/10104047

; Publication No. US20030236392A1

; GENERAL INFORMATION:

; APPLICANT: HELIX RESEARCH INSTITUTE

; TITLE OF INVENTION: No. US20030236392A1el full length cDNA

; FILE REFERENCE: H1-A0105

; CURRENT APPLICATION NUMBER: US/10/104,047

; CURRENT FILING DATE: 2002-03-25

; PRIOR APPLICATION NUMBER:

; PRIOR FILING DATE:

; NUMBER OF SEQ ID NOS: 4096

; SOFTWARE: PatentIn Ver. 2.1

; SEQ ID NO 2574

; LENGTH: 920

; TYPE: PRT

; ORGANISM: Homo sapiens
US-10-104-047-2574

Query Match 36.4%; Score 1502.5; DB 4; Length 920;
Best Local Similarity 40.4%; Pred. No. 4.5e-139;
Matches 328; Conservative 145; Mismatches 270; Indels 69; Gaps 20;

```

Qy      8 NTTVHYALLSASWAVLCYYAEDLRKLPLQE---LPNQASNWS-----AGLLAWLGIP  57
      | : : | | | | | | : : : | : | : | : | : |
Db    122 NSDII FVKLHAPWEVLGRYAEQMNVRMPFRRKIYYLPRRYKFMSTRIDKQISRLRRWLPPK 181

Qy     58 NVLL--EVVPDVP--EYYSRFRVKNLPRFLGSDNQDTFTTSTKRHQILFEILAKTPYGH 114
      : | | : | : : : : : | : : : | : | : | : | : |
Db    182 PMRLDKETLPDLEENDCYTAPFSQQRIHHFI-IHNKETFFNNATRSRIVHHILQRIKY-E 239

Qy    115 EKKNLLGIHQLLAEGVLSAAFP LHDGPFKTPPEGPQAPRLNQRQVLFQHWARWGKWNKYQ 174
      | | | : | : | | | | | | : : : | : | : | : | | |
Db    240 EGKNKIGLNRLLTNGSYEAAFP LHEGSYRSKNSIRTHGAENHRHLLYECWASGWVWYKYQ 299

Qy    175 PLDHVRRYFGEKVALYFAWLGFYTGWLLPAAVVGTLVFLVGCFLVFSDIPTQELCGSKDS 234
      | | | | | | | | : | | | | : | | | : | : : | : |
Db    300 PLDLVRRYFGEKIGLYFAWLGWYTGMLFFAAFIGLFVFLYGVTTLDHSQVSKEVCQATDI 359

Qy    235 FEMCPLC-LDCPFWLLSSACALAQAGRLFDHGGTVFFSLFMALWAVLLLEYWKRKSATLA 293
      | | : | | | | : | : | : | : | : | : | : | : | : |
Db    360 I-MCPVCDKYCPFMRLSDSCVYAKVTHLFDNGATVFFAVFMAVWATVLEFWKRRRAVIA 418

Qy    294 YRWDCSDYEDTEERPRPQFAAS-APMTAPNPITGEDEPYFPERSRARRMLAGSVVIVVMV 352
      | | | : | : | | | : | : | : | : | : | : | : |
Db    419 YDWDLDLWEEEEIEIRPQFEAKYSKKERMNPISGKPEPYQAFTDKCSRLIVSASGIFFMI 478

Qy    353 AVVVMCLVSIILYRAIMAIIVVSRSGNILLA-AWA-----SRIASLTGSVV--NLVFILIL 404
      | | : | : | : | : | : | : | : | : | : | : | : |
Db    479 CVVIAAVFGIIVIRVTV-----STFAAFK WALIRNNSQVAT-TGTAVCINFCIIMLL 530

Qy    405 SKIYVSLAHVLTRWEHRTQTKFEDAFTLVKFIFQFVNFIYSSPVYIAFFKGRFVGYPGNY 464
      : : | : | : | | | : : : : : | : | : | : | : | : |
Db    531 NVLYEKVALLLTNLEQPRTESEWENSFTLKMFLFQFVNLNSSTFYIAFFLGRFTGHPGAY 590

Qy    465 HTLFG-VRNEECAAGGLIELAQELLVIMVGKQVINNMQEVLIPLKLGWQKFLRLRSKKR 523
      | | | | | | : | : : | : | | | | : | : | : | : |
Db    591 LRLINRWRLNECHPSGCLIDLQCMGIIIMVLKQTWNFMELGYPLIQNWTR---RKVRQ 647

Qy    524 KAGASAGASQGPWEDDYELVPCE--GLFDEYLEMVLQFGFVTFIVAACPLAPLALLNNW 581
      : | | | | | | | | | | | | : | | | | | | | | | |
Db    648 EHGPERRKISFPQWEKDYNLQPMNAYGLFDEYLEMILQFGFTTIFVAAFPLAPLALLNNI 707

Qy    582 VEIRLDARKFVCEYRRPVAERAQDIGIWFHILAGLTHLAVISNAFLAFSSDFLPRAYR 641
      : | | | | | : : | : | : | : | : | : | : | : | : |
Db    708 IEIRLDAYKFVTQWRRLASRAKDIGIYGILEGILSVITNAFVAITSDIFIRLVYA 767

Qy    642 W-----TRAHDLRGFLNFTLA-----RAPSSFAAAHNRTCRYRAFR 677
      : : : : : : : : : : : : : : : : : : : : : :
Db    768 KYGPGACQGEGAGQKCMVGYVNASLSVFRISDFENRSEPSDGESESGTPLYKCYRYRDR 827

```

US-11-072-512-2574

```

; Sequence 2574, Application US/11072512
; Publication No. US20060029945A1
; GENERAL INFORMATION:
; APPLICANT: ISOGAI, TAKAO
; APPLICANT: SUGIYAMA, TOMOYASU
; APPLICANT: OTSUKI, TETSUJI
; APPLICANT: WAKAMATSU, AI
; APPLICANT: SATO, HIROYUKI
; APPLICANT: ISHII, SHIZUKO
; APPLICANT: YAMAMOTO, JUN-ICHI
; APPLICANT: ISONO, YUUKO
; APPLICANT: HIO, YURI
; APPLICANT: OTSUKA, KAORU
; APPLICANT: NAGAI, KEIICHI
; APPLICANT: IRIE, RYOTARO
; APPLICANT: TAMECHIKA, ICHIRO
; APPLICANT: SEKI, NAOHIKO
; APPLICANT: YOSHIKAWA, TSUTOMU
; APPLICANT: OTSUKA, MOTOYUKI
; APPLICANT: NAGAHARI, KENJI
; APPLICANT: MASUHO, YASUHIKO
; TITLE OF INVENTION: Novel full length cDNA
; FILE REFERENCE: 084335-0191
; CURRENT APPLICATION NUMBER: US/11/072,512
; CURRENT FILING DATE: 2005-03-07
; PRIOR APPLICATION NUMBER: US 60/350,978
; PRIOR FILING DATE: 2002-01-25
; PRIOR APPLICATION NUMBER: JP 2001-379298
; PRIOR FILING DATE: 2001-11-05
; NUMBER OF SEQ ID NOS: 4096
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2574
; LENGTH: 920
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-072-512-2574

```

Query Match 36.4%; Score 1502.5; DB 6; Length 920;
Best Local Similarity 40.4%; Pred. No. 4.5e-139;
Matches 328; Conservative 145; Mismatches 270; Indels 69; Gaps 20;

Qv 8 NTTVHYALLSASWAVLCYYAEDLRCLKPLQE----LPNQASNWS-----AGLLAWLGIP 57

```

Db      122 NSDIIFVKLHAPWEVLGRYAEQMNVRMPFRKRIYYLPRRYKFMSRIDKQISRLRRWLPKK 181
      | : : : | | | | | | | : : : | : | : | : | |
Qy      58 NVLL--EVVPDVPP-EYYSRFRVKNLPRFLGSDNQDTFFTSTKRHQILFEILAKTPYGH 114
      : | | : | : : : | : : | : | : | : | : | : | : |
Db      182 PMRLDKETLPDLEENDCYTAPFSQQRHHFI-IHNKETFFNNATRSRIVHHILQRIKY-E 239
      | : | : | : | : | : | : | : | : | : | : | : |
Qy      115 EKKNLLGIHQLLAEGVLSAAFPPLHDGPFKTPPEGPQAPRLNQRQVLVQHWARWGKWNKYQ 174
      | | | : | : : | | | | | | : : | | : : | | | | |
Db      240 EGKNKIGLNRLLTNGSYEAAFPLEHGSYRSKNSIRTHGAENHRHLLYECWASGWVWYKYQ 299
      | | | | | | | | | | | | | | | | | | | | | |
Qy      175 PLDHVRRYFGEKVALYFAWLGFYTGWLLPAAVVGTLVFLVGCFLVFSIDPTQELCGSKDS 234
      | | | | | | | | | | | | | | | | | | : | : | : |
Db      300 PLDLVRRYFGEKIGLYFAWLGWYTGMLFPAAFIGLVFLVGYVTLDHSQVSKEVCQATDI 359
      | | | | | | | | | | | | | | | | | | | | | |
Qy      235 FEMCPLC-LDCPFWLLSSACALAQAGRLFDHGGTVFFSLFMALWAVLLELYWKRKSATLA 293
      | | | | | | | | | | | | | | | | | | | | | |
Db      360 I-MCPVCDKYCPFMRLSDSCVYAKVTHLFDNGATVFFAVFMAVWATVLEFWKRRRAVIA 418
      | | | | | | | | | | | | | | | | | | | | | |
Qy      294 YRWDCSDYEDTEERPRPQFAAS-APMTAPNPITGEDEPYFPERSRARRMLAGSVVIVVMV 352
      | | | | : | : | | | | : | | | : | | : | : : : | :
Db      419 YDWDLDIWEEEEIEIRPQFEAKYSKKERMNPISGKPEPYQAFDTKCSRLIVSASGIFMI 478
      | | | | | | | | | | | | | | | | | | | | | |
Qy      353 AVVVMCLVSIILYRAIMAIIVSRSGNTLLA-AWA-----SRIASLTGSVV--NLVFILIL 404
      | | : : | : | : : : | | | | | : : | : | | | : :
Db      479 CVVIAAVFGVIVIRVTV-----STFAAFKWLIRNNSQVAT-TGTAVCINFCIIMLL 530
      | | | | | | | | | | | | | | | | | | | | | |
Qy      405 SKIYVSLAHVLRWEMHRTQTKFEDAFTLKVFIFQFVNFIYSSPVYIAFFKGRFVGYPGNY 464
      : : | : | : | | | | : : : : | : | : | : | | |
Db      531 NVLYEKVALLLTNLNQPRTESEWENSFTLKMFLFQFVNLSNSTFYIAFFLGRFTGHGPAY 590
      | | | | | | | | | | | | | | | | | | | | | |
Qy      465 HTLFG-VRNEECAAGGCLIELAQELLVIMVGKQVINNMQEVLIPLKLGWVQKFLRLSKKR 523
      | | | | | | | | | | : : | : | : : | : | : :
Db      591 LRLINRWRLEECHPSGCLIDLQCMGMIIMVLKQTWNNFMELGYPLIQNWTR---RKVRQ 647
      | | | | | | | | | | | | | | | | | | | | | |
Qy      524 KAGASAGASQGPWEDDYELVPCE--GLFDEYLEMVLQFGVFTIFVAACLAPLPLFALLNNW 581
      : | | | | | | | | | | | | | | | | | | | | | |
Db      648 EHGPERKISFPQWEKDYNLQPMNAYGLFDEYLEMILQFGFTTIFVAAFLAPLPLALLNNI 707
      | | | | | | | | | | | | | | | | | | | | | |
Qy      582 VEIRLDARFKVCEYRRPVAERAQDIGIWFHILAGLTHLAVISNAFLAFSSDFLPRAYR 641
      : | | | | | | | : | : | : | | | : | : | : | : | : | : |
Db      708 IEIRLDAYKFVTQWRRPLASRAKDIGIWIYGILEGIGLSVITNAFVIAITSDFIPRLVYA 767
      | | | | | | | | | | | | | | | | | | | | | |
Qy      642 W-----TRAHDLRGFLNFTLA-----RAPSSFAAAHNRTCRYRAFR 677
      : : : : | : | : : | : | : : | : | : | : |
Db      768 KYGPGCAGQGEAGQKCMVGYVNASLSVFRISDFENRSEPSDGESEFGTLPKYCRYRDYR 827
      | | | | | | | | | | | | | | | | | | | | | |
Qy      678 DDDGH-----YSQTYWNLLAIRLAFVIVFEHVVSVGRLLDLLVPDIPESVEIKVKREYY 732
      | | : : | : | | | | | | | : | : | : | : : : | |
Db      828 DPPHSLVPYGYTIQFHWVLAARLAFIIVFEHLVFCIKHLISYLIPLDLPKDLRDRMRREKY 887
      | | | | | | | | | | | | | | | | | | | | | |
Qy      733 LAKQALAEENVLFGTNGTKDEQPKGSELSSHW 764
      | : : : | | : : | : | : |
Db      888 LIQEMMYEALERLQKERKERKKNGKAHHNEW 919
      | | | | | | | | | | | | |

```

RESULT 7

US-11-582-861-10841

; Sequence 10841, Application US/11582861

; Publication No. US20070099251A1

; GENERAL INFORMATION:

; APPLICANT: Zhang, Hui

; APPLICANT: Aebersold, Rudolf H.

; TITLE OF INVENTION: TISSUE- AND SERUM-DERIVED GLYCOPROTEINS

; TITLE OF INVENTION: AND METHODS OF THEIR USE

; FILE REFERENCE: 460092.404

; CURRENT APPLICATION NUMBER: US/11/582,861

; CURRENT FILING DATE: 2006-10-17

; PRIOR APPLICATION NUMBER: US 60/728,044

; PRIOR FILING DATE: 2005-10-17

; NUMBER OF SEQ ID NOS: 14918

; SOFTWARE: FastSEQ for Windows Version 4.0

; SEQ ID NO 10841

; LENGTH: 981

; TYPE: PRT

; ORGANISM: Homo sapiens

US-11-582-861-10841

Query Match 36.3%; Score 1498.5; DB 6; Length 981;

Best Local Similarity 40.3%; Pred. No. 1.2e-138;

Matches 327; Conservative 145; Mismatches 271; Indels 69; Gaps 20;

```

Qy      8 NTTVHYALLSASWAVLCYYAEDLRLKLPQE---LPNQASNWS-----AGLLAWLGIP 57
      | : : | | | | | | | | | | : : : | : | : | : |
Db     183 NSDIIFVKLHAPWEVLGRYAEQMNVRMPFRRKIYYLPFRYKFMRSIDKQISRFRRWLPKK 242

Qy     58 NVLL--EVVDPDVP--EYYSRFRVKNLPRFLGSDNQDTFFTSTKRHQILFEILAKTPYGH 114
      : | | : | : | : | : | : | : | : | : | : | : |
Db     243 PMRLDKETLPDLEENDCYTAPFSQQRHHFI-IHNKETFFNNATRSRIVHHILQRIKY-E 300

Qy     115 EKKNLLGIHQLLAEGVLSAAFPPLHDGPFKTPPEGPQAPRLNQRQVLFQHWARWGKWNKYQ 174
      | | | : | : | | | | | | | | : : | | : : | | | | |
Db     301 EGKNKIGLNRLLTNGSYEAAFPLHEGSYRSKNSIRTHGAENHRHLLYECWASGVWYKYQ 360

Qy     175 PLDHVRRYFGEKVALYFAWLGFYTGWLLPAAVVGTLVFLVGCFLVFSDIPTQELCGSKDS 234
      | | | | | | | | | | | | | | | | | | : | | | : : | : |
Db     361 PLDLVRRYFGEKIGLYFAWLGWYTGMLEFPAAFIGLFVFLYGVTTLDHSQVSKEVCQATDI 420

Qy     235 FEMCPLC-LDCPFWLLSSACALAQAGRLFDHGGTVFFSLFMALWAVLLLEYWKRKSATLA 293
      | | : | | | | | | | | | | | | | | | | | | | | | : |
Db     421 I-MCPVCDKYCPFMRLSDSCVYAKVTHLFDNGATVFFAVMAVWATVFLFVWKRRAVIA 479

Qy     294 YRWDCSDYEDTEERPRPQFAAS-APMTAPNPITGEDEFPYFPERSRARRMLAGSVVIVVMV 352
      | | | : | : | | | | | : | | | | | | | | : | : | : |
Db     480 YDWDLDIWEEEEIEIRPQFEAKYSKKERMNPISGKPEPYQAFDKCSRILVSASGIFMI 539

Qy     353 AVVVMCLVSIILYRAIMAIVVSRSGNTLLA-AWA-----SRIASLTGSVV--NLVFILIL 404
      | | : | : | : | : | | | | | | | | | | | | | | : |

```


; LENGTH: 981
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 US-11-443-428A-801153

Query Match 35.7%; Score 1471.5; DB 6; Length 981;
 Best Local Similarity 41.2%; Pred. No. 5.9e-136;
 Matches 318; Conservative 142; Mismatches 241; Indels 71; Gaps 22;

```

Qy      20  WAVLCYYAEDLRCLKP-----LQELPNQASNWSAGLLAWLGIPNVL-L 61
      | || || | ::| :| : || | | ||
Db      214 WDTLCKYAERLNIRMPFRKKCYTGRSKSMGRMQTYFRRIKNWMA-----QNPMLVDK 267

Qy      62  EVVPDV-PPEYYSCRFRVNLPRFLGSDNQDTFTSTKRHQILFEILAKTPY--GHEKKN 118
      ||: : |: | :| :|:||||: | :|: :| :| | |
Db      268  SAFFDLEESDCYTGPFSSRARIHHFI-INNKDTFFSNATRSRIVYHMLERTKYENGISK-- 324

Qy     119  LLGIHQLLAEGVLSAAFFPLHDGPFKT---PPEGPQAPRLNQKQVLFQHWARWGKWNKYQ 174
      :|| :|: | |||| |:| :| || | | :|: |||| | |:|
Db     325  -VGIRKLINNGSYIAAFPPEGAYKSSQPIKTHGPQ---NNRHLLYERWARWGMWYKHQ 379

Qy     175  PLDHVRRYFGEKVVALYFAWLGFTYTWLLPAAVVGTLVFLVGCFLVFSIDIPTQELCGSKDS 234
      | | ||| :| |||||:| | | |||:| | | :|:| :| :
Db     380  PLDLIRLYFGEKIGLYFAWLGWYTGMLIPAAIVGLCVFFYGLFTMNNSSQVSEICKATEV 439

Qy     235  FEMCPLC-LDCPFWLLSSACALAQAGRLFDHGGTVFFSLFMALWAVLLLEYWKRKSATLA 293
      | |||| :| |:| |: |||||:| |||:| :| :|:| :|
Db     440  F-MCPLCDKNCSLQRLNDSICIYAKVTYLFDNNGTVFFAIFMAIWAIVTFLEFWKRRRSILT 498

Qy     294  YRWDCSDYEDTEERPRPQFAAS-APMTAPNPITGEDEPYFPERSRARRMLAGSVVIVVMV 352
      | || :|:| || |||| | | ||||:| |:| : |:| | |:
Db     499  YTWDLIEWEEEEETLRPQFEAKYKMEIVNPITGKPEHPQSSDKVTRLVSVSGIFFMI 558

Qy     353  AVVVMCLVSIILYR-AIMAIVVSRSGNTLLAASRIASLTGSV-VNLVFILILSKIYVS 410
      :|:| : : :|| :| | : | :|: :| :| :|:| :|
Db     559  SLVITAVFGVVVYRLVVMQFASFKNFIKQYW--QFATSAAAVCINFIIIMLLNLAYEK 616

Qy     411  LAHVLTRWEMHRTQTKEFDAFTLKVFIQFVNFIYSSPVYIAFFKGRFVGYPGNYHTLFG- 469
      :|:| | | ||:|:|:| ||:|:|||| || |||| | |||:| |:|
Db     617  IAYLLTNLEYPRTESEWENSFALKMFLFQFVNLNSSIFYIAFFLGRFVGHGPKYNKLFDR 676

Qy     470  VRNEECAAGGCLIELAQELLVIMVGKQVINNMQEVLIPLKLGWQKFLRLSKRRKAGASA 529
      | |||:| :| :| || |:| :| :| :| :| :|
Db     677  WRLEECHPSGCLIDLCLQMGVIMFLKQIWNFMELGYLIQNWWSRHKI-----KRGIH- 730

Qy     530  GASQGPWEDDYELVP---CEGLFDEYLEMVLQFGVTFIVAAACPLAPLALLNNWVEIRLD 587
      || ||:| :| | | ||||| |||| | ||| | ||||
Db     731  DASIPQWENDWNLPQPMNLHGLMDEYLEMVLQFGFTTIFVAAFPPLAPLALLNNIIEIRLD 790

Qy     588  ARKFVCEYRRPVAERAQDIGIWFHILAGLTHLAVISNAFLAFSSDFLPRAYRYW----- 642
      | ||| :|:|: || |||| | |:| |||:|:|:| :|:|:| :|
Db     791  AYKFVTQWRRLPARATDIGIWLGILEGIGILAVITNAFVIAITSDYIPRFVYEEKYGPC 850

Qy     643  -----TRAHDLRGLNFTLARAP-SSFAAAHNRTCRYAFR-----DDDGHYSQTYWNLL 691

```

```

                :|::|:|:| | : |::|:| :::|::|
Db      851 ANHVEPSENCLKGYVNNLSFFDLSELGMGKSGYCRYDRYRGPWPSSKPYEFTLQYWHIL 910

Qy      692 AIRLAFVIVFEHVVSFVGRLLDLLVPDIPESVEIKVKREYYLAKQALAEENEV 743
        | |::|:|:|:|:|:| : : |:|:|:| :::|:| | : : | :|
Db      911 AARLAFIIVFEHLVFGIKSFIAYLIPDVPKGLHDIRRREKYLQVEMMYEAEEL 962

```

RESULT 9

```

US-11-582-861-9875
; Sequence 9875, Application US/11582861
; Publication No. US20070099251A1
; GENERAL INFORMATION:
; APPLICANT: Zhang, Hui
; APPLICANT: Aebersold, Rudolf H.
; TITLE OF INVENTION: TISSUE- AND SERUM-DERIVED GLYCOPROTEINS
; TITLE OF INVENTION: AND METHODS OF THEIR USE
; FILE REFERENCE: 460092.404
; CURRENT APPLICATION NUMBER: US/11/582,861
; CURRENT FILING DATE: 2006-10-17
; PRIOR APPLICATION NUMBER: US 60/728,044
; PRIOR FILING DATE: 2005-10-17
; NUMBER OF SEQ ID NOS: 14918
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 9875
; LENGTH: 1046
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-582-861-9875

```

```

Query Match          35.7%; Score 1471.5; DB 6; Length 1046;
Best Local Similarity 41.2%; Pred. No. 6.5e-136;
Matches 318; Conservative 142; Mismatches 241; Indels 71; Gaps 22;

```

```

Qy      20 WAVLCYYAEDLRLKLP-----LQELPNQASNWSAGLLAWLGIPNVL-L 61
        | | | | | :::| :| : | | |
Db      279 WDTLCKYAERLNIRMPFRKKCYITDGRSKSMGRMYTFRIKKNWMA-----QNPVMYLDK 332

Qy      62 EVVPDV-PPEYYSCRFVNKLPRFLGSDNQDTFFTSTKRQHILFEILAKTPY--GHEKKN 118
        ||: :|: | :| :|:|:|:| :|:|:|:|:|:|:|
Db      333 SAFFDLEESDCYTGPFSSRARIHHFI-INNKDTFFSNATRSRIVYHMLERTKYENGISK-- 389

Qy      119 LLGIHQLLAEGVLSAAFLPHDGPFTK---PPEGPQAPRLNQRQVLFQHWARWGKWNKYQ 174
        :||:|:| | |::|:|:|:| | | :|:|:|:|:|:|
Db      390 -VGIRKLINNGSYIAAFPPEHAGYKSSQPIKTHGPQ---NNRHLLYERWARWGMWYKHQ 444

Qy      175 PLDHVRRYFGEKVALYFAWLGFYTGWLLPAAVVGTLVFLVGCFLVFSDIPTQELCGSKDS 234
        ||| :| |::|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|
Db      445 PLDLIRLYFGEKIGLYFAWLGWYTGLIPAAIVGLCVFFYGLFTMNSQVSQEICKATEV 504

Qy      235 FEMCPLC-LDCPFWLLSSACALAQAGRLFDHGGTVFSLFMALWAVLLELYWKRKSATLA 293
        | |::|:| :| :|:| | |::|:|:|:|:|:|:|:|:|:|:|
Db      505 F-MCPLCDKNCSLQRLNDSICIYAKVTYLFNDNGGTVFFAIFMAIWAIVFLEFWKRRRSILT 563

```


Qy 294 YRWDCSDYEDTEERPRPQFAAS-APMTAPNPITGEDEPYFPERSRARRMLAGSVVIVVMV 352
| || :||: || |||| | | ||||: ||: | : |: | | :|

Db 564 YTWDLIEWEEEEETLRPQFEAKYKMEIVNPITGKPEPHQSSDKVTRLLVSVSGIFFMI 623

Qy 353 AVVVMCLVSIILYR-AIMAIVVSRSGNTLLAAWASRIASLTGVS-VNLVFIILSKIYVS 410
:||: | : :||: | | | | : | : | : | : | : | : |

Db 624 SLVITAVFGVVYRLVVMQFASFKNFIKQYW--QFATSAAAVCFNFIIMLLNLAYEK 681

Qy 411 LAHVLTRWEMHRTQTKFEDAFITLKVFIFQFVNFYSSPVYIAFFKGRFVGYPGNYHTLFG- 469
:||: | | ||::||: ||: ||: |||| | | |||| ||||: | | : |

Db 682 IAYLLTNLEYPRTESEWENSFALKMFLFQFVNLNSSIFYIAFFLGRFVGHPGKYNKLFDR 741

Qy 470 VRNEECAAGGCLIELAQELLVIMVGKQVINNMQEVLPKLGWWQKFRRLRSKKRKAGASA 529
| || | ||||: | : || | ||: | | : | : | : | : |

Db 742 WRLEECHPSGCLIDLCLQMGVIMFLKQIWNFMELGYPLIQNWSRHKI-----KRGIH- 795

Qy 530 GASQGPWEDDYELVP--CEGLFDEYLEMVLQFGFTVIFVAACPLAPLALLNNWVEIRLD 587
| | ||: | | | | ||||| |||| | || | |||| : ||||

Db 796 DASIPQWENDWNLQPMNLHGLMDEYLEMVLQFGFTTIFVAAPLAPLALLNNIIEIRLD 855

Qy 588 ARKFVCEYRRPVAERAQDIGIWFHILAGLTHLAVISNAFLAFSSDFLPRAYYRW----- 642
| || | :|||: | | |||| | | : | |||: ||: | : ||: | | :

Db 856 AYKFVTQWRRLPARATDIGILGILEGIGILAVITNAFVIAITSDYIPRFVYBYKYGPC 915

Qy 643 -----TRAHDLRGFLNFTLARAP-SSFAAAHNRTCRYAFR-----DDDGHYSQTYWNL 691
: ||: ||: | : | : ||| : | : | : ||: |

Db 916 ANHVEPSENCCKGYVNNSSLFFDLSELGMGSGCYRDRYRGPWPSSKPYEFTLQYWHIL 975

Qy 692 AIRLAFVIVFEHVSVGRLLDLLVPDIPESVEIKVKREYLLAKQALAEENEV 743
| ||||: ||||: || : : ||: ||: : : || || : : | | :

Db 976 AARLAFIIVFEHLVFGIKSFIAYLIPDVPKGLHDIRREKYLQEMMYEAE 1027

RESULT 10

US-11-177-894-11

; Sequence 11, Application US/11177894

; Publication No. US20060040292A1

; GENERAL INFORMATION:

; APPLICANT: West, et al.

; TITLE OF INVENTION: Tumor Markers and Uses Thereof

; FILE REFERENCE: 2002850-0048

; CURRENT APPLICATION NUMBER: US/11/177,894

; CURRENT FILING DATE: 2005-07-08

; NUMBER OF SEQ ID NOS: 29

; SOFTWARE: PatentIn version 3.2

; SEQ ID NO 11

; LENGTH: 840

; TYPE: PRT

; ORGANISM: Artificial

; FEATURE:

; OTHER INFORMATION: Homo sapiens

US-11-177-894-11

Query Match

35.4%; Score 1461.5; DB 6; Length 840;

Best Local Similarity 40.1%; Pred. No. 4.7e-135;
Matches 331; Conservative 149; Mismatches 260; Indels 85; Gaps 21;

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Qy      5 QDGNTTVH---YALLSASWAVLCYYAEDLRKLPLQELPNQASNWSAGLLAWLGIPNVLL 61
      :| :| :| : : | | || | | :||:| :| : : | : || | | :||
Db      28 RDEDTKIHGCVFKIHAPNVNLCREAEFLKLKMPKTKMYH--INETRGLLK--KINSVLQ 83

Qy     162 EVVPDPVPEYYSCR-----FRVNKLPRFLGSDNQDTFFTTSTKRHQILFEILAKTP 111
      :: : :| : | | | | :|| :| | | :||| :|
Db     184 KITDPIQPKVAEHRPQTMKRLSYFFSREKQHLFDLSD-KDSFFDSKTRSTIVYEILKRTT 142

Qy     112 YGHEKKNLLGIHQLLAEGVLSAAFPPLHDGPFKTPPEGPQAPRLNQRQVLFQHWARWGWN 171
      | : :| || | :| :||| : : | :| :| :| :| :|
Db     143 CTKAKYS-MGITSLLANGVYAAAYPLHDG DY-----NGENVEFNDRLKLLYEAWARYGVFY 196

Qy     172 KYQPLDHVRRYFGEKVALYFAWLGFYTGWLLPAAVVGTLVFLVGCFLVFSDIPTQELCGS 231
      ||| :| :| :||| :| :||| :| :| :| :| :| :| :| :| :| :|
Db     197 KYQPIDLVRRYFGEKIGLYFAWLGVYTMPLIPASIVGIIVFLYGCATMDENIPSMEMCDQ 256

Qy     232 KDSFEMCPLC-LDCPFWLLSSACALAQAGRLFDHGGTVFFSLFMALWAVLLLEYWKRKSA 290
      : : |||| | :| :||| :| ||| : |||| :||| :| :|||
Db     257 RHNITMCPLCDKTC SYWKMSACATARASHLFDNPATVFFSVFMALWAATFMEHWKRKQM 316

Qy     291 TLAYRWDCSDYEDTEERPRPQFAA-----SAPMTAPNPITGEDEPYFPERSRARRMLAGS 345
      | ||| : :| :| :| :| :| :| :| :| :| :| :| :|
Db     317 RLNYRWDLTGFEEDDHPRAEYEARVLEKSLKESRNKET--DKVKLTWRDRFPAYLTNL 374

Qy     346 VVIVVMVAVVVMCLVSIILYRAIMAVVSRSGNTLLAAWASRIASLTGSVVNLVFIILS 405
      | | :| :| : :| :| || : : : : : : | :||| :| :|
Db     375 VSIIFMIAVTFAILVGVIIYRISMAAALAMNSSPSVRSNIRVTVTATAVINLVVILLDD 434

Qy     406 KIYVSLAHLVTRWEMHRTQTQKFEDAFTLKVIFQFVNIFYSSPVYIAFFKGRFVGYPGNYH 465
      :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :|
Db     435 EVYGCIARWLTKEIVPKTEKSFEERLIFKAFLLKFVNSYTPIFYVAFFKGRFVGPRGDYV 494

Qy     466 TLF-GVRNEECAAGCLIELAQELLVIMVGKQVI--NNMQEVLIPKLGWQKFRRLRSKKR 523
      :| | | ||| :| :| :| :| :| :| :| :| :| :| :| :| :|
Db     495 YIFRSFMEECAPGGCLMELCIQLSIIMLGKQLIQNNLFEIGIPKMKKLIRYLKCLKQSP 554

Qy     524 KAGASAGASQGPWEDDYELVPCGLFDEYLEMVLQFGFVTIFVAACPLAPL FALLNNWVE 583
      : :| || | | || ||| :| :| :| :| :| :| :| :| :| :|
Db     555 PDHEECVKRKRQRYEVDYNLEPFAGLTPEYMEMIIQFGFVTLFVASFPLAPL FALLNNIIE 614

Qy     584 IRLDARKFVCEYRRPVAERAQDIGIWFHILAGLTHLAVISNAFLAFSSDFLPRA--YYR 641
      |||| :| | |||| :| :||| :| :| :| :| :| :| :| :|
Db     615 IRLDAKKFVTELRRPVAVRAKDIGIWNILRGIGKLAVIIDAFVISFTSDFIPRLVLYM 674

Qy     642 WTRAHDLRGLNFTLAPASSF-----AAAHN-----RTCRYRAFRD---DDGH 682
      :: : :| :| || || | | : ||| :| :| :
Db     675 YSKNGTMHGFVNHTL----SSFNVSDFGNGTAPNDPLDLGYEQICRYKDYREPPWSENK 730

Qy     683 Y--SQTYWNLLAIRLAFVIVFEHVVSFVGRLLDLLVPDIPESVEIKVKREYYLA----- 734
      | : :| :| |||| :| :| :| :| :| :| :| :| :| :|
Db     731 YDISKDFWAVLAARLAFVIVFQNLVFMFMSDFVDWVIPDIPKDISQQIHKEKVLMLVELFMR 790

```

```

Qy      735 ----KQALAEENEVLFGTNGTKDEQP-----KGSELSSH 763
        || | | || | || | || |
Db      791 EEQDKQQLL--ETCMEKERQKDEPPCNHHNTKACPDSLGLSPAPSH 833

```

RESULT 11

US-11-177-894-7

; Sequence 7, Application US/11177894

; Publication No. US20060040292A1

; GENERAL INFORMATION:

; APPLICANT: West, et al.

; TITLE OF INVENTION: Tumor Markers and Uses Thereof

; FILE REFERENCE: 2002850-0048

; CURRENT APPLICATION NUMBER: US/11/177,894

; CURRENT FILING DATE: 2005-07-08

; NUMBER OF SEQ ID NOS: 29

; SOFTWARE: PatentIn version 3.2

; SEQ ID NO 7

; LENGTH: 960

; TYPE: PRT

; ORGANISM: Artificial

; FEATURE:

; OTHER INFORMATION: Transmembrane protein

US-11-177-894-7

Query Match 35.3%; Score 1456.5; DB 6; Length 960;
 Best Local Similarity 40.2%; Pred. No. 1.8e-134;
 Matches 333; Conservative 147; Mismatches 260; Indels 89; Gaps 22;

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Qy      5 QDGNITVH---YALLSASWAVLCYYAEDLRKLPLQLPNQASNWSAGLLAWLGIPNVLL 61
        :| :| :| : : | | || | | | :| :| :| :| :| :| :| :| :|
Db      144 RDEDTKIHGVGFKIHAPNVNVLCREAEFLKLMPTKKMYH--INETRGLLK--KINSVLQ 199

Qy      62 EVVPDVPPEYYSCR-----FRVNKLPRFLGSDNQDFTFTSTKRHQILFEILAKTP 111
        : : :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :|
Db      200 KITDPQPKVAEHRPQTMKRLSYFFSREKQHLFDLSD-KDSFFDSKTRSTIVYEILKRTT 258

Qy      112 YGHEKKNLLGIHQLLAEGVLSSAAFLPHDGPFKTPPEGPQAPRLNQRQVLFQHWARWGKWN 171
        | : :| || | | :| :| :| :| :| :| :| :| :| :| :| :|
Db      259 CTAKAYS-MGITSLLANGVYAAAYPLHDGDY-----NGENVEFNDRKLLYEAWARYGVFY 312

Qy      172 KYQPLDHVRRYFGEKVALYFAWLGFYIGWLLPAAVVGTLVFLVGCFLVFSIDIPTQELCGS 231
        ||| :| || :| :| :| :| :| :| :| :| :| :| :| :| :| :|
Db      313 KYQPIDLVRYKFGKIGLYFAWLGVYQMLIPASIVGIIIVLYGCATMDENIPSMEMCDQ 372

Qy      232 KDSFEMCPLC-LDCPFWLLSSACALAQAGRLFDHGGTVFFSLFMALWAVLLLEYWKRKSA 290
        : : |||| | :| :| :| :| :| :| :| :| :| :| :| :| :|
Db      373 RHNITMCPLCDKTCYWKMSACATARASHLFDNPAIVFFSVFMALWAATFMEHWKRKQM 432

Qy      291 TLAYRWDCSDYEDTEE----RPRPQFAA----SAPMTAPNPITGEDEPYFPERSRARM 341
        | ||| : :| :| | :| :| :| :| :| :| :| :| :| :| :|
Db      433 RLNYRWDLTGFEIEEEAVKDHPRAEYEARVLEKSLKESRNKET--DKVKLTWRDRFPAY 490

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Qy      342 LAGSVVIVVMVAVVVMCLVSIILYRAIMAIIVVSRSGNTLLAAWASRIASLTGSVVNLVFI 401
      | | | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
Db      491 LTNLVSIIFMIAVTFIAVLGVIIYRISMAAALAMNSSPSVRSNIRVTVTATAVINLVVI 550

Qy      402 LILSKIYVSLAHVLTRWEMHRTQTKFEDAFTLKVFIFQFVNIFYSSPVYIAFFKGRFVGYP 461
      : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
Db      551 ILLDEVYGCIARWLTKEIVPKTEKSFEERLIFKAFLLKFNVSNTPIFYVAFFKGRFVGPR 610

Qy      462 GNYHTLF-GVRNEECAAGGCLIELAQELLVIMVGKQVI-NNMQEVLPKPKLGWQKFRRLR 519
      | : | : | | | | | | | | : | : | : | | | | | : | : | : | : | : | : | : |
Db      611 GDYVYIFRSFRMEECAPGGCLMELCIQLSIIIMLGKQLIQNNLFEIGIPKMKKLIRYLKLK 670

Qy      520 SKKRKAGASAGASQGPWEDDYELVPCGLFDEYLEMVLQFGFVTIFVAACPLAPLAFALLN 579
      : : : : | : | | | | | | | | : | : | : | : | : | : | : | : | : | : | : |
Db      671 QOSPDPHEECVKRKQRYEVDYNLEPFAGLTPEYMEMIIQFGFVTLFVASFPLAPLAFALLN 730

Qy      580 NWVEIRLDARKFVCEYRRPVAERAQDIGIWFHILAGLTHLAVISNAFLFASFSDFLPRA- 638
      | : | | | | : | | | | | | : | : | : | : | : | : | : | : | : | : | : | : |
Db      731 NIEIRLDARKFVTELRRPVAVRAKDIGIWINILRGIGKLAVINAFVISFTSDFIPRLV 790

Qy      639 -YYRWTRAHLDRGLNFTLARAPSSF-----AAAHN-----RTCRYRAFRD--- 678
      | : : : : | : | | | | | | | | : | : | : | : | : | : | : | : | : | : | : |
Db      791 YLYMSYKNGTMHGFVNHTL----SSFNVSDFQNGTAPNDPLDLGYEVQICRYKDYREPPW 846

Qy      679 DDGHY--SQTYWNLALRLAFVIVFEHVVSFVGRLLDLLVPDIPESVEIKVKREYYLA-- 734
      : | | : | : | | | | | : | : | : | : | : | : | : | : | : | : | : | : | : |
Db      847 SENKYDISKDFWAVLAARLAFVIVFQNLVFMMSDFVDWVDPDKDISQIHKQKVMVE 906

Qy      735 -----KQALAEENVLFGTNGTKDEQP-----KGSELSSH 763
      | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db      907 LFMREEQDKQQLL--ETWMEKERQKDEPPCNHNTKACPDLSGSPAPSH 953

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RESULT 12

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US-11-443-428A-774192
; Sequence 774192, Application US/11443428A
; Publication No. US20070083334A1
; GENERAL INFORMATION:
; APPLICANT: Mintz, Liat
; APPLICANT: Xie, Hangqing
; APPLICANT: Dahari, Dvir
; APPLICANT: Levanon, Erez
; APPLICANT: Freilich, Shiri
; APPLICANT: Beck, Nili
; APPLICANT: Zhu, Wei-Yong
; APPLICANT: Wasserman, Alon
; APPLICANT: Hermesh, Chen
; APPLICANT: Azar, Idit
; APPLICANT: Bernstein, Jeanne
; TITLE OF INVENTION: METHODS AND SYSTEMS USEFUL FOR ANNOTATING BIOMOLECULAR SEQUENCES
; FILE REFERENCE: 02/23929
; CURRENT APPLICATION NUMBER: US/11/443,428A
; CURRENT FILING DATE: 2006-05-31
; NUMBER OF SEQ ID NOS: 1034312

```

; SOFTWARE: PatentIn version 3.1
 ; SEQ ID NO 774192
 ; LENGTH: 999
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 US-11-443-428A-774192

Query Match 34.9%; Score 1437; DB 6; Length 999;
 Best Local Similarity 38.7%; Pred. No. 1.6e-132;
 Matches 326; Conservative 161; Mismatches 263; Indels 92; Gaps 23;

```

Qy      1 QQDVQDGNNTVHYALLSASWAVLCYYAEDLRKLPLQELPNQ-----ASNWSAGLLAW 53
      :|::: : : : | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db      170 EKDLENKSQGSIFVRTHAPWQVLAREAEFLKIKVPTKKMEYEIKAGGSIKAKFSAAL--- 226

Qy      54 LGIPNVLEVVDPVPPEYYSCFRVKNLP-----RFLGSDNQDTFFTSTKRHQILFEIL 107
      : : : | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db      227 ---QKLSHQLQPRV-PEHSNNKMKNLSPYPSREKMYLYNIQEKDTFFDNATRSRIVHEIL 282

Qy      108 AKTPYGHEKKNLLGIHQLLAEGVLSAAFPLHDGFFKTPPEGPQAPRLNQRQVLFQHWARW 167
      : | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db      283 KRTACS-RANNTMGINSLIANNIYEAAYPLHDGEYDSPEDD-----MNDRKLLYQEWARY 336

Qy      168 GKWNKYQPLDHVRRYFGKEKVALYFAWLGFYTGWLLPAAVVGTLVFLVGCFLVFSDIPTQE 227
      | : | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db      337 GVIFYKQPIDLIRKYFGKEIGLYFAWLGLYTSFLIPSSVIGVIVFLYGCATIEEDIPSRE 396

Qy      228 LCGSKDSFEMCPLC-LDCPFWLLSSACALAQAGRLFDHGGTVFVSLFMALWAVLLLEYWK 286
      : | : : | | | | | | | | | | | | | | | | | | | | | | | | | |
Db      397 MCDQQNAFTMCPLCDKSCDYWNLSACGTAQASHLFDNPATVFFSIFMALWATMFLENWK 456

Qy      287 RKSATLAYRWDCSDYEDTEER----PRPQFAA-----SAPMTAPNPIT----G 326
      | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db      457 RLQMRGLGYFDLTLGIEEEERAQEHRSPEYETKVRKMKLKESNSAVQKLETNTTECGDE 516

Qy      327 EDEPYFPERSRARMLAGSVVIVVMVAVVMCLVSIILYRAIMAIIVVSRSGNTLLAAS 386
      : | | : | | | | | | | | | | | | | | | | | | | | | | | | |
Db      517 DDEDKLTWKDRFPGYLMNFASILFMIALTFSIVFGVIVYRITTAALS-----LNKATRS 571

Qy      387 RI---ASLTGSVNVNLFVILILSKIYVSLAHVLRWEMHRTQTKFEDAFTLKVFIFQVNF 443
      : : : | : | | | | | | | | | | | | | | | | | | | | | | |
Db      572 NVRVTVTATAVINLVVILILDEIYGAVAKWLTKIEVPKTEQTFEERLILKAFLLKFVNA 631

Qy      444 YSSPVYIAFFKGRFVGYPGNYHTLF-GVRNEECAAGGCLIELAQELLVIMVGKQVI--NNM 501
      | | | : | | | | | | | | | | | | | | | | | | | | | | | | |
Db      632 YSPIFYVAFFKGRFVGRPGSYVYVFDGYRMEECAPGGCMLCQLSIIIMLGKQLIQNNI 691

Qy      502 QEVLIPKLKGWQKFLRLSKKRKAGASAGA-SQGP--WEDDYELVPC EGLFDEYLEMVLQ 558
      | : | | | | : | | : : | | : | | | | | | | | | | | | | |
Db      692 FEIGVPKLK---KLFRKLKDETEAGETDSAHSKHPEQWDLDSLEPYTGLTPEYMEMIIQ 748

Qy      559 FGFVTIFVAACPLAPLAFALLNNWVEIRLDARKFVCEYRRPVAERAQDIGIWFHILAGLTH 618
      | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db      749 FGFVTLFVASFPPLAPVALLNNVIEVRLDAKKFVTELRRPDVARTKDIGIWFIDILSGIGK 808

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US-11-443-428A-739452
; Sequence 739452, Application US/11443428A
; Publication No. US20070083334A1
; GENERAL INFORMATION:
; APPLICANT: Mintz, Liat
; APPLICANT: Xie, Hanqing
; APPLICANT: Dahari, Dvir
; APPLICANT: Levanon, Erez
; APPLICANT: Freilich, Shiri
; APPLICANT: Beck, Nili
; APPLICANT: Zhu, Wei-Yong
; APPLICANT: Wasserman, Alon
; APPLICANT: Hermesh, Chen
; APPLICANT: Azar, Idit
; APPLICANT: Bernstein, Jeanne
; TITLE OF INVENTION: METHODS AND SYSTEMS USEFUL FOR ANNOTATING BIOMOLECULAR SEQUENCES
; FILE REFERENCE: 02/23929
; CURRENT APPLICATION NUMBER: US/11/443,428A
; CURRENT FILING DATE: 2006-05-31
; NUMBER OF SEQ ID NOS: 1034312
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 739452
; LENGTH: 800
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-443-428A-739452

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Query Match 34.4%; Score 1417; DB 6; Length 800;
Best Local Similarity 40.3%; Pred. No. 1.2e-130;
Matches 326; Conservative 142; Mismatches 252; Indels 88; Gaps 22;

Qy	23	LCYYAEDRLRLKLPQLPQNQASNWSAGLLAWLGIPNVLLLEVVPDPVPEYYSCR-----	75
		: : : : : : : : : :	
Db	7	LC--ARVLKLMPTTKMYH--INETGLLK--KINSVLQKITDPIOPKVAEHRPOTMKRL	60

Qy 76 ---FRVNKLPRFLGSDNQDTFFSTTKRHQILFEILAKTPYGHEKKNLLGIHQLLAEGVLS 132
| | | || :|| | | | :||| :| | : :| || | :
Db 61 SYPFSREKQHLFDLSD--KDSFFDSKTRSTIVYEILKRTTCTKAKYS--MGITSLLANGVYA 118

Qy 133 AAFPLHDGPFKTPPEGPQAPRLNQRQVLFQHWARWGKWNKYQPLDHWRRYFGKEKVALYFA 192
||:|||| : : | :||:| ||| : | |||:| ||:|||| : |||
Db 119 AAYPLHDGDY-----NGENVEFNDRKLLYEWEARYGVFYKYQPIDLVRYKYFGEKIGLYFA 173

Qy 193 WLGFYTGWLLPAAVVGTLVFLVGCFLVFSDIPTQELCGSKDSFEMCPLC--LDCPFWLLSS 251
||| || |:||:| ||| || : :||| :| : ||| : | : ||
Db 174 WLGVYQMLIPASIVGIIVFLYGCATMDENIPSMEMCDQRHNITMCPCLKTKCSYWKMS 233

Qy 252 ACALAQAGRLFDHGGTVFFSLFMALWAVLLLEYWKRSATLAYRWCDSYEDTEE---R 307
||| ||| ||| : ||||:||||| :||| : ||| : :| :|
Db 234 ACATARASHLFDNPATVFFSVFMALWAATFMEHWKRQMRNLNYRWDLTGFEETEEAVKDH 293

Qy 308 PRPQFAA-----SAPMTAPNPITGEDEPYFPERSRARRMLAGSVVIVVMVAVVMCLVSI 362
|| :| | :| | | :| | | | :| :| | :| :| :| :|
Db 294 PRAEYEARVLEKSLKKESRNKET--DKVKLTWRDRFPAYLTNLVSIIFMIAVTFAIVLGV 351

Qy 363 ILYRAIMAIVVSRSGNTLLAAWASRIASLTGSVVNLVFLILILSKIYVSLAHVLTRWEMHR 422
|:| | | : : : : : :| :||| |:| :| :| |:| : :
Db 352 IYRISMAAALAMNSSPSVRSNIRVTVTATAVIINLVVILLDEYVGCIARWLTKIEVPK 411

Qy 423 TQTKFEDAFTLKVFIFQFVNFISSPVYIAFFKGRFVGYPGNYHLF--GVRNEECAAGGCL 481
| : ||| | : :||| :| :||| ||||| ||:| :| | ||| |||
Db 412 TEKSFEERLIFKAFLLKFVNSYTFIFYVAFFKGRFVGRPGDYVYIFRSFMEECAPGGCL 471

Qy 482 IELAQELLVIMVGQVI--NNMQEVLIPKLKGWQKFLRLSKKRKAGASAGASQGPWEDDY 540
:| | :| :||:||||| ||:| :||| : : : : : :| |
Db 472 MELCIQLSIIMLGKQLIQNNLFEIGIPKMKKLIRYLKCLKQSPPDHEECVKRKQRYEVDY 531

Qy 541 ELVPCEGLEFDEYLEMVLFQGFVTIFVAACPLAPLALLNNWVEIRLDARKFVCEYRRPVA 600
| | || ||:|:|||||:|:| : ||||| ||||| :|||:| | |||||
Db 532 NLEPFAGLTPEYMEMIIQFGFVTLFVASFPLAPLALLNNIIERLDARKFVTELRRPVA 591

Qy 601 ERAQDIGIWFHILAGLTHLAVISNAFLAFSSDFLPRA---YYRWTRAHDLRGLNFTLAR 658
||:|||||:| | : |||| |||:|:|:|:| | : : : :| :| ||
Db 592 VRAKDIGIWNILRGIGKLAVIINAFVISFTSDFIPRLVLYLMYSKNGTMHGFVNHTL-- 649

Qy 659 APSSF-----AAHN-----RTCRYRAFRD---DDGHY--SQTYWNLALAIRLAF 697
||| | | : ||| :| : : | : :| :| |||
Db 650 --SSFNVSDFQNGTAPNDPLDLGYEVQICRYKDYREPPWSENKYDISKDFWAVLAARLAF 707

Qy 698 VIVFEHVVSFVGRLLDLLVPDIPESVEIKVKREYYLA-----KQALAEENVLFGT 747
|||:| : :| :|:| : :| :| :| :| | | |
Db 708 VIVFQNLVFMFMSDFVDWVIPDKDISQQIHKEKVLVMELVFMREEQDKQQLL--ETWMEK 765

Qy 748 NGTKDEQP-----KGSELSSH 763
||| | || ||
Db 766 ERQKDEPPCNHHTKACPDLSLGPAPSH 793

US-11-443-428A-739454
 ; Sequence 739454, Application US/11443428A
 ; Publication No. US20070083334A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Mintz, Liat
 ; APPLICANT: Xie, Hanqing
 ; APPLICANT: Dahari, Dvir
 ; APPLICANT: Levanon, Erez
 ; APPLICANT: Freilich, Shiri
 ; APPLICANT: Beck, Nili
 ; APPLICANT: Zhu, Wei-Yong
 ; APPLICANT: Wasserman, Alon
 ; APPLICANT: Hermesh, Chen
 ; APPLICANT: Azar, Idit
 ; APPLICANT: Bernstein, Jeanne
 ; TITLE OF INVENTION: METHODS AND SYSTEMS USEFUL FOR ANNOTATING BIOMOLECULAR SEQUENCES
 ; FILE REFERENCE: 02/23929
 ; CURRENT APPLICATION NUMBER: US/11/443,428A
 ; CURRENT FILING DATE: 2006-05-31
 ; NUMBER OF SEQ ID NOS: 1034312
 ; SOFTWARE: PatentIn version 3.1
 ; SEQ ID NO 739454
 ; LENGTH: 800
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 US-11-443-428A-739454

Query Match 34.4%; Score 1417; DB 6; Length 800;
 Best Local Similarity 40.3%; Pred. No. 1.2e-130;
 Matches 326; Conservative 142; Mismatches 252; Indels 88; Gaps 22;

Qy	23	LCYYAEDLRKLKPLQELPNQASNWSAGLLAWLGIPNVLLLEVVPDPPEYYSCR-----	75
		: : : : : : : : : :	
Db	7	LC--ARVLKLMPTKKMYH--INETRGLLK--KINSVLQKITDPIQPKVAEHRPQTMKRL	60
Qy	76	---FRVKNLPRFLGSDNQDTFFSTKRRHQILFEILAKTPYGHEKKNLGLIHQLLAEGVLS	132
		: : : : : : : : : : :	
Db	61	SYFFSREKQHLFDLSD-KDSFFDSKTRSTIVYEILKRTTCTKAKYS-MGITSLLANGVYA	118
Qy	133	AAFLPHDGPFKTPPEGFPQAPRLNQRQVLFGHWRWGKWNKYQLPDHVRRYFGKVALYFA	192
		: : : : : : : : : : : : : : :	
Db	119	AAFLPHDGDY----NGENVEFNDRLLYEEWARYGVFYKQPIDLVRKYFGKIGLYFA	173
Qy	193	WLGFTYTGWLLPAAVVGTLVLVFGCFLVFSDIPTQELCGSKDSFEMCPLC-LDCPFWLLSS	251
		: : : : : : : : : : :	
Db	174	WLGVTYQMLIPASIVGIIVFLYGCATMDENIPSMEMCDQRHNITMCPLCDKTCYWKMS	233
Qy	252	ACALAQAGRLFDDHGGTVFFSLFMALWAVLLLEYWKRKSATLAYRWDCSDYEDTEE----R	307
		: : : : : : : : : :	
Db	234	ACATARASHLFDNPATVFFSVFMALWAATFMEHWKRKQMRNLNRYWDLTGVEEEEEAVKDH	293
Qy	308	PRPQFAA-----SAPMTAPNITGEDEPYFPERSRARRMLAGSVVIVVMVAVVMCLVSI	362
		: : : : : : : : : : : :	
Db	294	PRAEYEARVLEKSLKKESRNKET--DKVKLTWRDRFPAYLTNLVSIIFMIAVTFIAVLGV	351

Qy 363 ILYRAIMAI VVSRS GNTLLAAWASRIASLTGSSVNVLVF ILILSKIYVSLAHVLTRWEMHR 422
 Db 352 IIRISMAAALAMNSSPSVRSNIRVTATAVIINLVVILLDEVYGCIAARWLTKIEVPK 411

Qy 423 TQTKFEDAFTLKVFIQFVNFYSSPVYIAFFKGRFVGYPGNYHTLF--GVRNEECAAGGCK 481
 Db 412 TEKSFEERLIFKAFLLKFVNSYTFIFYVAFFKGRFVGPRGPDYVYIFRSFRMEECAPGGCL 471

Qy 482 IELAQELLVIMVGKQVI--NNMQEVLIPKLKGWQKFLRLSKKKRAGASAGASQGPWEDDY 540
 Db 472 MELCIQLSIIMLGKQLIQNNLFEIGIPKMKKILRYLKLKQSQPPDHEECVKRKRQRYEVDY 531

Qy 541 ELVPC EGLFDEYLEMVQFGFVTIFVAACPLAPL FALLNNVWEIRLDARKFVCEYRRPVA 600
 Db 532 NLEPFAGLTPEYMEMIIQFGFVTLFVASFPLAPL FALLNNIIEIRLDAKKFVTELRRPVA 591

Qy 601 ERAQDIGIWFHILAGLTHLAVISNAFLAFSSDFLPRA--YYRWTRAHDLRGFLNFTLAR 658
 Db 592 VRAKDIGIWNILRGIGKLAVIINAFVISFTSDFIPRLVLYLMYSKNGTMHGFVNHTL-- 649

Qy 659 APSSF-----AAAHN-----RTCRYRAFRD---DDGHY--SQTYWNLLAIRLAF 697
 Db 650 --SSFNVSDFQNGTAPNDPLDLGYEVQICRYKDYREPPWSENKYDISKDFWAVLAARLAF 707

Qy 698 VIVFEHVVSFVGRLLDLLVPDIPESVEIKVKREYYLA-----KQALAENEVLFGT 747
 Db 708 VIVFQNLVMFMSDFVDWVIPDKDISQQIHKEKVLVMEVLFMRQEQQKQQLL--ETWMEK 765

Qy 748 NGTKDEQP-----KGSELSSH 763
 Db 766 ERQKDEPPCNHNTKACPDSLGSPAPSH 793

RESULT 15

US-11-443-428A-739456

; Sequence 739456, Application US/11443428A

; Publication No. US20070083334A1

; GENERAL INFORMATION:

; APPLICANT: Mintz, Liat

; APPLICANT: Xie, Hanqing

; APPLICANT: Dahari, Dvir

; APPLICANT: Levanon, Erez

; APPLICANT: Freilich, Shiri

; APPLICANT: Beck, Nili

; APPLICANT: Zhu, Wei-Yong

; APPLICANT: Wasserman, Alon

; APPLICANT: Hermesh, Chen

; APPLICANT: Azar, Idit

; APPLICANT: Bernstein, Jeanne

; TITLE OF INVENTION: METHODS AND SYSTEMS USEFUL FOR ANNOTATING BIOMOLECULAR SEQUENCES

; FILE REFERENCE: 02/23929

; CURRENT APPLICATION NUMBER: US/11/443,428A

; CURRENT FILING DATE: 2006-05-31

; NUMBER OF SEQ ID NOS: 1034312
 ; SOFTWARE: PatentIn version 3.1
 ; SEQ ID NO 739456
 ; LENGTH: 853
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 US-11-443-428A-739456

Query Match 34.3%; Score 1416; DB 6; Length 853;
 Best Local Similarity 40.9%; Pred. No. 1.6e-130;
 Matches 322; Conservative 142; Mismatches 248; Indels 76; Gaps 21;

Qy 23 LCYYAEDRLRLKPLQELPNQASNWSAGLLAWLGIPNVLLVVPDPVPEYYSCR----- 75
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 Db 7 LC--ARVLKLMPTTKMYH--INETRGLLK--KINSVLQKITDPIQPKVAEHRPQTMKRL 60

Qy 76 ---FRVNKLPRFLGSDNQDTFFSTKRRHQILFEILAKTPYGHEKKNLLGIHQLLAEGVLS 132
 | | | || :|| | | | :||| :| | : :|| ||| || :
 Db 61 SYFFSREKQHLFDLSD--KDSFFDSKTRSTIVYEILKRTTCTKAKYS--MGITSLLANGVYA 118

Qy 133 AAFPLHDGPFKTPPEGPQAPRLNQRQVLFGHWRWGKWNKYQLDHWRRYFGEKVALYFA 192
 ||:|||| : : | :||:| |||:| : |||:| ||:||||: ||||
 Db 119 AAYPLHDGDY-----NGENVEFNDRLKLLYEAWARYGVFYKQPIDLVRKYFGEKIGLYFA 173

Qy 193 WLGFYTGWLLPAAVVVGLVFLVGCFLVFSDIPTQELCGSKDSFEMCPLC-LDCPFWLLSS 251
 ||| || :||:|| :|| || : :||:| : : |||| | :| :||
 Db 174 WLGvyTQMLIPASIVGIIVFLYGCATMDENIPSMEMCDQRHNITMCPLCDKTCYWKMS 233

Qy 252 ACALAQAGRLFDHGGTVFFSLFMALWAVLLLEYWKRKSATLAYRWDCSDYEDTEE----R 307
 ||| :| ||| :|||:||||| :||| | ||| : :| :|
 Db 234 ACATARASHLFDNPATVFFSVFMALWAATFMEHWKRKQMRNLNRYWDLTGFEETEEAVKDH 293

Qy 308 PRPQFAA-----SAPMTAPNPITGEDEPYFPERSRARRMLAGSVVIVVMVAVVMCLVSI 362
 || :| | | : | | :| | | | | :| :|| :| :| :| :|
 Db 294 PRAEYEARVLEKSLKKESRNKET--DKVKLTWRDRFPAYLTNLVSIIFMIAVTFIAVLGV 351

Qy 363 ILYRAIMAIVVSRSNTLLAAWASRIASLTGSVVNLVFIILSIKYVSLAHVLTREWHR 422
 |:| || : : : : : | :||| |:| :| :| ||:| :| :|
 Db 352 IIYRISMAAALAMNSSPSVRSNIRVTVTATAVIINLVVILLDEVYGCIARWLTKIEVPK 411

Qy 423 TQTKFEDAFTLKVFIQFVNFIYSSPVYIAFFKGRFVGYPGNYHTLF-GVRNEECAAGGCL 481
 |: || | : :||| :| :||| ||||| ||:| :| | ||| ||||
 Db 412 TEKSFEERLIFKAFLLKFVNSYTPIFYVAFFKGRFVGRPGDYVYIFRSFRMEECAPGGCL 471

Qy 482 IELAQELLVIMVGKQVI--NNMQEVLIPKLKGWQKFRRLRSKKRKAGASAGSQGPWEDDY 540
 :|| :| :||:||||| :| :| :||:| : :| :| :| :| :|
 Db 472 MELCIQLSIIMLGKQLIQNNLFEIGIPKMKKLIRYKLKQQSPPDHEECVKRKQRYEVDY 531

Qy 541 ELVPCGEFLFDEYLEMVLQFGFVTIFVAACPLAPLFA LLNNWVEIRLDARFVCEYRRPVA 600
 | | || ||:|||||:||||| :|||:|||||:|||||:|||||
 Db 532 NLEPFAGLTPEYMEMIIQFGFVTLFVASFPLAPLFA LLNNII EIRLDAKFVTELRRPVA 591

Qy 601 ERAQDIGIWFHILAGLTHLAVISNAFLAFSSDFLPRA--YYRWTRAHDLRGFLNFTLAR 658
 ||:||||:| || :| |||| |||:|:|:| || | :| :| :| :| ||

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Db          592 VRAKDIGIWYNILRGIGKLAVIINAFVISFTSDFIPRLVLYMYSKNGTMHGFVNHTL-- 649
Qy          659 APSSF-----AAAHN-----RTCRYRAFRD---DDGHY--SQTYWNLLAIRLAF 697
           |||      | |      : |||: |: :      : | | : |: | || |||
Db          650 --SSFNVSDFQNGTAPNDPLDLGYEVQICRYKDYREPPWSENKYDISKDFWAVLAARLAF 707
Qy          698 VIVFEHVVSFVGRLLDLLVPDIPESVEIKVKREYYLA-----KQALAENEVLFGT 747
           |||:::| :  :| ::|||: :  :: :| |      || | |
Db          708 VIVFQNLVMFMSDFVDWVIPDKDISQQIHKEKVLVLMVELFMREEQDKQQLL--ETWMEK 765
Qy          748 NGTKDEQP 755
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Db          766 ERQKDEPP 773

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Search completed: June 24, 2008, 15:37:43
 Job time : 350 secs

SCORE 3.0